

## ABSTRACT OF THE DISCLOSURE

A system and method for high numeric aperture imaging systems includes a splitter, a defocusing system, and a combiner. The splitter reflects a portion of collected light and transmits another portion of the collected light. The defocusing system is configured to modify optical power of either the transmitted portion or reflected portion of the collected light. The combiner is oriented with respect to a mechanical angle. The combiner recombines portions of the transmitted portion and the reflected portion such that the transmitted portion and reflected portion are subsequently transmitted being separated by an optical separation angle based upon the mechanical angle of orientation of the combiner. Various other implementations are used to maintain focus with regards to the imaging systems involved.

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